



Attorney's Docket No.: 20366-116002 / PP15805.0004 *HFV*

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Escobedo et al.  
Serial No. : 10/616,900  
Filed : July 9, 2003  
Title : GENE PRODUCTS DIFFERENTIALLY EXPRESSED IN CANCEROUS COLON  
CANCER CELLS AND THEIR METHODS OF USE  
Art Unit : 1631  
Examiner : Carolyn L. Smith  
Conf. No. : 5219

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of the listed U.S. patents can be provided upon request.

This statement is being filed after a first Office action on the merits, but before receipt of a final Office action or a Notice of Allowance. A check for \$180 in payment of the late submission fee of §1.17(p) is enclosed. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: April 3, 2007

*Elizabeth N. Kaytor*  
Elizabeth N. Kaytor, Ph.D.  
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CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date of Deposit April 5, 2007  
*Lisa M. Becker*  
Signature Lisa M. Becker  
Typed or Printed Name of Person Signing Certificate



*Handwritten initials: HWB*

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Applicant : Escobedo et al.  
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Filed : July 9, 2003  
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Art Unit : 1631  
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**Mail Stop Amendment**  
Commissioner for Patents  
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Alexandria, VA 22313-1450

TRANSMITTAL

The following correspondence relating to this application is enclosed for filing:

1. Response to Notice of Non-compliant Amendment (3 pages);
2. Information Disclosure Statement (1 page);
3. Form PTO-1449 (6 pages);
4. Copies of Cited References (108 references);
5. Check in the amount of \$180.00; and
6. A Return Postcard.

Please date stamp and return the enclosed postcard. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: April 3, 2007

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Serial No. : 10/616,900                      Examiner : Carolyn L. Smith  
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**Mail Stop Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RESPONSE TO NON-COMPLIANT AMENDMENT**

This communication is in response to the Notice of Non-Compliant Amendment mailed  
March 20, 2007.

**CERTIFICATE OF MAILING BY FIRST CLASS MAIL**

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April 5, 2007  
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Applicant : Escobedo et al.  
Serial No. : 10/616,900  
Filed : July 9, 2003  
Page : 2 of 3

Attorney's Docket No.: 20366-116002 / PP15805.0004

Amendments to the Specification

Please replace the title with the following amended title:

~~GENE PRODUCTS DIFFERENTIALLY EXPRESSED IN CANCEROUS METHODS~~  
OF DETECTING COLON CANCER CELLS AND THEIR METHODS OF USE

Applicant : Escobedo et al.  
Serial No. : 10/616,900  
Filed : July 9, 2003  
Page : 3 of 3

Attorney's Docket No.: 20366-116002 / PP15805.0004

### REMARKS

The deletion of the title and replacement with a new title in the Amendment and Reply filed on March 7, 2007, was deemed improper. In response to the Notice of Non-Compliant Amendment mailed March 20, 2007, Applicants have amended the title of the application. No new matter has been added.

Please apply any charges or credits to deposit account 06-1050.

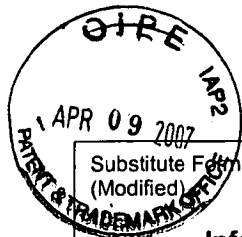
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Substitute Form PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
20366-116002Application No.  
10/616,900**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant  
Escobedo et al.Filing Date  
July 9, 2003Group Art Unit  
1631**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,683,195	07/28/87	Mullis et al.			
	AB	4,683,202	07/28/87	Mullis			
	AC	4,777,127	10/11/88	Suni et al.			
	AD	4,959,314	09/25/90	Mark et al.			
	AE	5,219,740	06/15/93	Miller et al.			
	AF	5,010,175	04/23/91	Rutter et al.			
	AG	5,124,246	06/23/92	Urdea et al.			
	AH	5,149,655	09/22/92	McCabe et al.			
	AI	5,206,152	04/27/93	Sukhatme			
	AJ	5,422,120	06/06/95	Kim			
	AK	5,556,752	09/17/96	Lockhart et al.			
	AL	5,578,832	11/26/96	Trulson et al.			
	AM	5,580,859	12/03/96	Felgner et al.			
	AN	5,593,839	01/14/97	Hubbell et al.			
	AO	5,599,695	02/04/97	Pease et al.			
	AP	5,631,734	05/20/97	Stern et al.			
	AQ	5,654,173	08/05/97	Jacobs et al.			
	AR	5,707,829	01/13/98	Jacobs et al.			
	AS	5,807,522	09/15/98	Brown et al.			
	AT	5,814,482	09/29/98	Dubensky Jr. et al.			
	AU	6,020,135	02/01/00	Levine et al.			
	AV	6,500,938	12/31/02	Au-Young et al.			
	AW	60/252,358					

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AX	WO 90/07936	07/26/90	WIPO				

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 20366-116002	Application No. 10/616,900
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Escobedo et al.	
		Filing Date July 9, 2003	Group Art Unit 1631

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AY	WO 90/11092	10/04/90	WIPO				
	AZ	WO 91/02805	03/07/91	WIPO				
	AAA	WO 91/14445	10/03/91	WIPO				
	ABB	WO 91/17823	11/28/91	WIPO				
	ACC	WO 92/02526	02/20/92	WIPO				
	ADD	WO 92/11033	07/09/92	WIPO				
	AEE	WO 93/03769	03/04/93	WIPO				
	AFF	WO 93/10218	05/27/93	WIPO				
	AGG	WO 93/11230	06/10/93	WIPO				
	AHH	WO 93/14778	08/05/93	WIPO				
	AII	WO 93/19191	09/30/93	WIPO			Abst.	
	AJJ	WO 93/25234	12/23/93	WIPO				
	AKK	WO 93/25698	12/23/93	WIPO				
	ALL	WO 94/03622	02/17/94	WIPO				
	AMM	WO 94/12649	06/09/94	WIPO				
	ANN	WO 94/23697	10/27/94	WIPO				
	AOO	WO 94/28938	12/22/94	WIPO				
	APP	WO 95/00655	01/05/95	WIPO				
	AQQ	WO 95/07994	03/23/95	WIPO				
	ARR	WO 95/11984	05/04/95	WIPO				
	ASS	WO 95/13796	05/26/95	WIPO				
	ATT	WO 95/22058	08/17/95	WIPO				
	AUU	WO 95/30763	11/16/95	WIPO				
	AVV	WO 96/17072	06/06/96	WIPO				
	AWW	WO 97/02357	01/23/97	WIPO				
	AXX	WO 97/27317	07/31/97	WIPO				
	AYY	WO 97/29212	08/14/97	WIPO				

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Foreign Patent Documents or Published Foreign Patent Applications								
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							Yes	No
	AZZ	WO 97/42338	11/13/97	WIPO				
	AAAA	0 345 242	06/02/89	EPO			Abst.	
	ABBB	721 016	07/10/96	EPO				
	ACCC	728 520	05/16/01	EPO				
	ADDD	785 280	04/02/03	EPO				
	AEEE	799 897	06/28/06	EPO				
	AFFF	0 524 968	06/07/95	EPO				
	AGGG	2 200 651	08/10/88	GB				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AHHH	Altschul et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," <u>Nucl. Acids Res.</u> , 1997, 25(17):3389-3402
	AIII	Alberts et al., <u>Molecular Biology of the Cell</u> , 1994, Garland Publishing, pp. 1-2
	AJJJ	Attwood, "The Babel of Bioinformatics," <u>Science</u> , 2000, 290:471-473
	AKKK	Bodmer et al., "Genetic steps in colorectal cancer," <u>Nat. Genet.</u> , 1994, 6:217-219
	ALLL	Brinkley et al., "Variations in Cell From and Cytoskeleton in Human Breast Carcinoma Cells <i>in Vitro</i> ," <u>Cancer Res.</u> , 1980, 40:3118-3129
	AMMM	Brutlag et al., "BLAZE <sup>TM</sup> : An Implementation of the Smith-Waterman Sequence Comparison Algorithm on a Massively Parallel Computer," <u>Comp. Chem.</u> , 1993, 17(2):203-207
	ANNN	Cailleau et al., "Breast Tumor Cell Lines from Pleural Effusions," <u>J. Natl. Cancer Inst.</u> , 1974, 53(3):661-666
	AOOO	Chandrasekaran and Davidson, "Glycosaminoglycans of Normal and Malignant Cultured Human Mammary Cells," <u>Cancer Res.</u> , 1979, 39:870-880
	APPP	Chaturvedi et al., "Stabilization of triple-stranded oligonucleotide complexes: use of probes containing alternating phosphodiester and stereo-uniform cationic phosphoramidate linkages," <u>Nucl. Acids Res.</u> , 1996, 24(12):2318-2323
	AQQQ	Clarke and Fersht, "Engineered Disulfide Bonds as Probes of the Folding Pathway of Barnase: Increasing the Stability of Proteins against the Rate of Denaturation," <u>Biochemistry</u> , 1993, 32:4322-4329
	ARRR	Claverie "Effective Large-Scale Sequence Similarity Searches," <u>Meth. Enzymol.</u> , 1996, 266:212-227
	ASSS	Claverie and States, "Information Enhancement Methods for Large Scale Sequence Analysis," <u>Comput. Chem.</u> , 1993, 17(2):191-201
	ATTT	Claverie, <u>Automated DNA Sequencing and Analysis</u> , 1994, Adams et al. (eds.), Chapter 36, pp. 269-279, Academic Press
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(37 CFR §1.98(b))			

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	AUUU	Conia et al., "The Micro-Robotic Laboratory: Optical Trapping and Scissoring for the Biologist," <u>J. Clin. Lab. Anal.</u> , 1997, 11:28-38
	AVVV	Connelly et al., "In Vivo Gene Delivery and Expression of Physiological Levels of Functional Human Factor VIII in Mice," <u>Hum. Gene Ther.</u> , 1995, 6:185-193
	AWWW	Curiel et al., "High-Efficiency Gene Transfer Mediated by Adenovirus Coupled to DNA-Polylysine Complexes," <u>Hum. Gene Ther.</u> , 1992, 3:147-154
	AXXX	Curran et al., "Laser capture microscopy," <u>J. Clin. Pathol.: Mol. Pathol.</u> , 2000, 53:64-68
	AYYY	Emmert-Buck et al., "Laser Capture Microdissection," <u>Science</u> , 1996, 274:998-1001
	AZZZ	Fearon, "Molecular Genetics of Colorectal Cancer," <u>Ann. NY Acad. Sci.</u> , 1995, 768:101-110
	AAAAA	Fearon and Vogelstein, "A Genetic Model for Colorectal Tumorigenesis," <u>Cell</u> , 1990, 61:759-767
	ABBBB	Findeis et al., "Targeted delivery of DNA for gene therapy via receptors," <u>Trends Biotechnol.</u> , 1993, 11:202-205
	ACCCC	Gastpar et al., "Methoxy-Substituted 3-Formyl-2-phenylindoles Inhibit Tubulin Polymerization," <u>J. Med. Chem.</u> , 1998, 41:4965-4972
	ADDDD	Gerhold and Caskey, "It's the genes! EST access to human genome content," <u>BioEssays</u> , 1996, 18(12):973-981
	AEEEE	Gō and Miyazawa, "Relationship Between Mutability, Polarity and Exteriority of Amino Acid Residues in Protein Evolution," <u>Int. J. Peptide Protein Res.</u> , 1980, 15:211-224
	AFFFF	Haezebrouck et al., "Stability effects associated with the introduction of a partial and a complete Ca <sup>2+</sup> -binding site into human lysozyme," <u>Protein Eng.</u> , 1993, 6(6):643-649
	AGGGG	Hamilton and Kern, "Molecular Genetic Alterations as Potential Prognostic Indicators in Colorectal Carcinoma and Molecular Genetics of Colorectal Carcinoma," <u>Cancer</u> , 1993, 72:957
	AHHHH	Hanahan and Weinberg, "The Hallmarks of Cancer," <u>Cell</u> , 2000, 100:57-70
	AIIII	Hashido et al., "Truncation of N-Terminal Extracellular or C-Terminal Intracellular Domains of Human ET <sub>A</sub> Receptor Abrogated the Binding Activity to ET-1," <u>Biochem. Biophys. Res. Comm.</u> , 1992, 187(3):1241-1248
	AJJJJ	Jolly, "Viral vector systems for gene therapy," <u>Cancer Gene Therapy</u> , 1994, 1:51-64
	AKKKK	Kaplitt et al., "Long-term gene expression and phenotypic correction using adeno-associated virus vectors in the mammalian brain," <u>Nat. Genet.</u> , 1994, 8:148-154
	ALLLL	Kelner et al., "Nonresponsiveness of the Metastatic Human Lung Carcinoma MV522 Xenograft to Conventional Anticancer Agents," <u>Anticancer Res.</u> , 1995, 15:867-872
	AMMMM	Kimura et al., "Retroviral Delivery of DNA into the Livers of Transgenic Mice Bearing Premalignant and Malignant Hepatocellular Carcinomas," <u>Hum. Gene Ther.</u> , 1994, 5:845-852
	ANNNN	Kuang et al., "Differential screening and suppression subtractive hybridization identified genes differentially expressed in an estrogen receptor-positive breast carcinoma cell line," <u>Nucl. Acids Res.</u> , 1998, 26(4):1116-1123
	AOOOO	Lopez et al., "Identification of putative chromosomal origins of replication in Archaea," <u>Mol. Microbiol.</u> , 1999, 32(4):883-886
	APPPP	Luo et al., "Gene expression profiles of laser-captured adjacent neuronal subtypes," <u>Nat. Med.</u> , 1999, 5:117-122

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Other Documents (include Author, Title, Date, and Place of Publication)		
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	AQQQQ	Masui et al., "Stabilization and Rational Design of Serine Protease AprM under Highly Alkaline and High-Temperature Conditions," <u>Appl. Env. Microbiol.</u> , 1994, 60(10):3579-3584
	ARRRR	Morikawa et al., "In Vivo Selection of Highly Metastatic Cells from Surgical Specimens of Different Primary Human Colon Carcinomas Implanted into Nude Mice," <u>Cancer Res.</u> , 1988, 48:1943-1948
	ASSSS	Morikawa et al., "Influence of Organ Environment on the Growth, Selection, and Metastasis of Human Colon Carcinoma Cells in Nude Mice," <u>Cancer Res.</u> , 1988, 48:6863-6871
	ATTTT	Mullis and Faloona, "Specific Synthesis of DNA <i>in Vitro</i> via a Polymerase-Catalyzed Chain Reaction," <u>Meth. Enzymol.</u> , 1987, 155:335-372
	AUUUU	Niwa et al., "A Role for Presenilin-1 in Nuclear Accumulation of Ire1 Fragments and Induction of the Mammalian Unfolded Protein Response," <u>Cell</u> , 1999, 99:691-702
	AVVVV	Ohyama et al., "Laser Capture Microdissection-Generated Target Sample for High-Density Oligonucleotide Array Hybridization," <u>Biotechniques</u> , 2000, 29(3):530-536
	AWWWW	Olsen and Thomsen, "Improvement of bacterial $\beta$ -glucanase thermostability by glycosylation," <u>J. Gen. Microbiol.</u> , 1991, 137:579-585
	AXXXX	Pappalardo et al., "Microdissection, Microchip Arrays, and Molecular Analysis of Tumor Cells (Primary and Metastases)," <u>Sem. Radiation Oncol.</u> , 1998, 8(3):217-223
	AYYYY	Peyrottes et al., "Oligodeoxynucleoside phosphoramidates (P-NH <sub>2</sub> ): synthesis and thermal stability of duplexes with DNA and RNA targets," <u>Nucl. Acids Res.</u> , 1996, 24(10):1841-1848
	AZZZZ	Philip et al., "Efficient and Sustained Gene Expression in Primary T Lymphocytes and Primary and Cultured Tumor Cells Mediated by Adeno-Associated Virus Plasmid DNA Complexed to Cationic Liposomes," <u>Mol. Cell. Biol.</u> , 1994, 14(4):2411-2418
	AAAAAA	Querol et al., "Analysis of protein conformational characteristics related to thermostability," <u>Prot. Eng.</u> , 1996, 9(3):265-271
	ABBBBB	Radinsky et al., "Level and Function of Epidermal Growth Factor Receptor Predict the metastatic Potential of Human Colon Carcinoma Cells," <u>Clin. Cancer Res.</u> , 1995, 1:19-31
	ACCCCC	Ramsay, "DNA chips: State-of-the art," <u>Nat. Biotechnol.</u> , 1998, 16:40-44
	ADDDDD	Ranson et al., "Increased plasminogen binding is associated with metastatic breast cancer cells: differential expression of plasminogen binding proteins," <u>Br. J. Cancer</u> , 1998, 77(10):1586-1597
	AEEEEEE	Russell and Barton, "Structural Features can be Unconserved in Proteins with Similar Folds. An Analysis of Side-chain to Side-chain Contacts Secondary Structure and Accessibility," <u>J. Mol. Biol.</u> , 1994, 244:332-350
	AFFFFF	Saiki et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <u>Science</u> , 1988, 239:487-491
	AGGGGG	Sambrook et al., "In Vitro Amplification of DNA by the Polymerase Chain Reaction," <u>Molecular Cloning: A Laboratory Manual</u> , 1989, CSH Press, pp.14.2-14.33
	AHHHHH	Schena et al., "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <u>Science</u> , 1995, 270(5235):467-470
	AIIIII	Schena et al., "Parallel human genome analysis: Microarray-based expression monitoring of 1000 genes," <u>Proc. Natl. Acad. Sci. USA</u> , 1996, 93(20):10614-10619
	AJJJJJ	Shalon et al., "A DNA Microarray System for Analyzing Complex DNA Samples Using Two-color Fluorescent Probe Hybridization," <u>Genome Res.</u> , 1996, 6:639-645
	AKKKKK	Simone et al., "Laser-capture microdissection: opening the microscopic frontier to molecular analysis," <u>Trends Genet.</u> , 1998, 14(7):272-276

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Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	ALLLLL	Suarez-Quian et al., "Laser Capture Microdissection of Single Cells from Complex Tissues," <u>BioTechniques</u> , 1999, 26(2):328-335
	AMMMMM	Toma et al., "Grafting of a Calcium-Binding Loop of Thermolysin to <i>Bacillus subtilis</i> Neutral Protease," <u>Biochemistry</u> , 1991, 30:97-106
	ANNNNN	Varki et al., "Cloned Low Metastatic Variants from Human Lung Carcinoma Metastases," <u>Anticancer Res.</u> , 1990, 10:637-644
	AOOOOO	Varki et al., "Microscopic Metastasis of a Human Lung Carcinoma Cell Line in Athymic Nude Mice: Isolation of a Metastatic Variant," <u>Int. J. Cancer</u> , 1987, 40:46-52
	APPPPP	Varki et al., "Spontaneously Metastasizing Variants of a Human Lung Carcinoma Cell Line: Monoclonal Antibody Characterization," <u>Tumor Biol.</u> , 1990, 11:327-338
	AQQQQQ	Wakarchuk et al., "Thermostabilization of the <i>Bacillus circulans</i> xylanase by the introduction of disulfide bonds," <u>Protein Eng.</u> , 1994, 7(11):1379-1386
	ARRRRR	Wells and Peitsch, "The chemokine information source: identification and characterization of novel chemokines using the WorldWideWeb and Expressed Sequence Tag Databases," <u>J. Leukocyte Biol.</u> , 1997, 61(5):545-550
	ASSSSS	Woffendin et al., "Nonviral and viral delivery of a human immunodeficiency virus protective gene into primary human T cells," <u>Proc. Natl. Acad. Sci. USA</u> , 1994, 91(24):11581-11585
	ATTTTT	Wu and Wu, "Receptor-mediated Gene Delivery and Expression <i>in Vivo</i> ," <u>J. Biol. Chem.</u> , 1988, 263(29):14621-14624
	AUUUUU	Wu et al., "Receptor-mediated Gene Delivery <i>in Vivo</i> . Partial Correction of Genetic Analbuminemia in Nagase Rats," <u>J. Biol. Chem.</u> , 1991, 266(22):14338-14342
	AVVVVV	Wu et al., "Incorporation of Adenovirus into a Ligand-based DNA Carrier System Results in Retention of Original Receptor Specificity and Enhances Targeted Gene Expression," <u>J. Biol. Chem.</u> , 1994, 269(15):11542-11546
	AWWWWW	Wu et al., "Targeting Genes: Delivery and Persistent Expression of a Foreign Gene Driven by Mammalian Regulatory Elements <i>in Vivo</i> ," <u>J. Biol. Chem.</u> , 1989, 264(29):16985-16987
	AXXXXX	Yeaman et al., "Identification of genetic alterations associated with the process of human experimental colon cancer liver metastasis in the nude mouse," <u>Clin. Exp. Metastasis</u> , 1996, 14:246-252
	AYYYYY	Yeaman and Mao, "Identification of a differentially-expressed message associated with colon cancer liver metastasis using an improved method of differential display," <u>Nucl. Acids. Res.</u> , 1995, 23(19):4007-4008
	AZZZZZ	Zenke et al., Receptor-mediated endocytosis of transferrin-polycation conjugates: An efficient way to introduce DNA into hematopoietic cells," <u>Proc. Natl. Acad. Sci. USA</u> , 1990, 87:3655-3659
	AAAAAA	Zhang et al., "Anti-tumor efficacy and biodistribution of intravenous polymeric micellar paclitaxel," <u>Anti-Cancer Drugs</u> , 1997, 8:696-701

Examiner Signature	Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Escobedo et al.  
Serial No. : 10/616,900  
Filed : July 9, 2003  
Title : GENE PRODUCTS DIFFERENTIALLY EXPRESSED IN CANCEROUS COLON CANCER CELLS AND THEIR METHODS OF USE

Art Unit : 1631  
Examiner : Carolyn L. Smith  
Conf. No. : 5219

**Mail Stop Amendment**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

TRANSMITTAL

The following correspondence relating to this application is enclosed for filing:

1. Response to Notice of Non-compliant Amendment (3 pages);
2. Information Disclosure Statement (1 page);
3. Form PTO-1449 (6 pages);
4. Copies of Cited References (108 references);
5. Check in the amount of \$180.00; and
6. A Return Postcard.

Please date stamp and return the enclosed postcard. Please apply any charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: April 3, 2007

Elizabeth N. Kaytor  
Elizabeth N. Kaytor, Ph.D.  
Reg. No. 53,103

Fish & Richardson P.C.  
60 South Sixth Street, Suite 3300  
Minneapolis, MN 55402  
(612) 335-5070 telephone  
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60419229.doc

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date of Deposit April 5, 2007  
Signature [Signature]  
Lisa M. Becker  
Typed or Printed Name of Person Signing Certificate



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Escobedo et al.                      Art Unit : 1631  
Serial No. : 10/616,900                      Examiner : Carolyn L. Smith  
Filed : July 9, 2003                      Conf. No. : 5219  
Title : GENE PRODUCTS DIFFERENTIALLY EXPRESSED IN CANCEROUS  
COLON CANCER CELLS AND THEIR METHODS OF USE

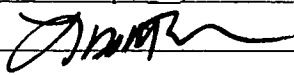
**Mail Stop Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RESPONSE TO NON-COMPLIANT AMENDMENT**

This communication is in response to the Notice of Non-Compliant Amendment mailed March 20, 2007.

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Date of Deposit April 5, 2007  
\_\_\_\_\_  
Signature   
\_\_\_\_\_  
Typed or Printed Name of Person Signing Certificate Lisa M. Becker

Applicant : Escobedo et al.  
Serial No. : 10/616,900  
Filed : July 9, 2003  
Page : 2 of 3

Attorney's Docket No.: 20366-116002 / PP15805.0004

Amendments to the Specification

Please replace the title with the following amended title:

~~GENE PRODUCTS DIFFERENTIALLY EXPRESSED IN CANCEROUS METHODS~~  
OF DETECTING COLON CANCER CELLS AND THEIR METHODS OF USE

Applicant : Escobedo et al.  
Serial No. : 10/616,900  
Filed : July 9, 2003  
Page : 3 of 3

Attorney's Docket No.: 20366-116002 / PP15805.0004

### REMARKS

The deletion of the title and replacement with a new title in the Amendment and Reply filed on March 7, 2007, was deemed improper. In response to the Notice of Non-Compliant Amendment mailed March 20, 2007, Applicants have amended the title of the application. No new matter has been added.

Please apply any charges or credits to deposit account 06-1050.

Respectfully submitted,

Date: April 3, 2007

Elizabeth N. Kaytor  
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Escobedo et al.  
Serial No. : 10/616,900  
Filed : July 9, 2003  
Title : GENE PRODUCTS DIFFERENTIALLY EXPRESSED IN CANCEROUS COLON  
CANCER CELLS AND THEIR METHODS OF USE

Art Unit : 1631  
Examiner : Carolyn L. Smith  
Conf. No. : 5219

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Applicants request consideration of the references listed on the attached PTO-1449 form. Under 37 C.F.R. § 1.98 (a)(2)(ii), only copies of foreign patent documents and/or non-patent literature are enclosed. Copies of the listed U.S. patents can be provided upon request.

This statement is being filed after a first Office action on the merits, but before receipt of a final Office action or a Notice of Allowance. A check for \$180 in payment of the late submission fee of §1.17(p) is enclosed. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,

Date: April 3, 2007

Elizabeth N. Kaytor  
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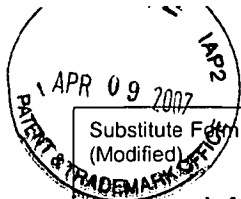
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Date of Deposit April 5, 2007  
Signature [Signature]  
Typed or Printed Name of Person Signing Certificate Lisa M. Becker



Substitute Form PTO-1449  
(Modified)U.S. Department of Commerce  
Patent and Trademark OfficeAttorney's Docket No.  
20366-116002Application No.  
10/616,900**Information Disclosure Statement  
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.98(b))

Applicant  
Escobedo et al.Filing Date  
July 9, 2003Group Art Unit  
1631**U.S. Patent Documents**

Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,683,195	07/28/87	Mullis et al.			
	AB	4,683,202	07/28/87	Mullis			
	AC	4,777,127	10/11/88	Suni et al.			
	AD	4,959,314	09/25/90	Mark et al.			
	AE	5,219,740	06/15/93	Miller et al.			
	AF	5,010,175	04/23/91	Rutter et al.			
	AG	5,124,246	06/23/92	Urdea et al.			
	AH	5,149,655	09/22/92	McCabe et al.			
	AI	5,206,152	04/27/93	Sukhatme			
	AJ	5,422,120	06/06/95	Kim			
	AK	5,556,752	09/17/96	Lockhart et al.			
	AL	5,578,832	11/26/96	Trulson et al.			
	AM	5,580,859	12/03/96	Felgner et al.			
	AN	5,593,839	01/14/97	Hubbell et al.			
	AO	5,599,695	02/04/97	Pease et al.			
	AP	5,631,734	05/20/97	Stern et al.			
	AQ	5,654,173	08/05/97	Jacobs et al.			
	AR	5,707,829	01/13/98	Jacobs et al.			
	AS	5,807,522	09/15/98	Brown et al.			
	AT	5,814,482	09/29/98	Dubensky Jr. et al.			
	AU	6,020,135	02/01/00	Levine et al.			
	AV	6,500,938	12/31/02	Au-Young et al.			
	AW	60/252,358					

**Foreign Patent Documents or Published Foreign Patent Applications**

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AX	WO 90/07936	07/26/90	WIPO				

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Disclosure Form (PTO-1449)

Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 20366-116002	Application No. 10/616,900
	Applicant Escobedo et al.		
	Filing Date July 9, 2003	Group Art Unit 1631	

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AY	WO 90/11092	10/04/90	WIPO				
	AZ	WO 91/02805	03/07/91	WIPO				
	AAA	WO 91/14445	10/03/91	WIPO				
	ABB	WO 91/17823	11/28/91	WIPO				
	ACC	WO 92/02526	02/20/92	WIPO				
	ADD	WO 92/11033	07/09/92	WIPO				
	AEE	WO 93/03769	03/04/93	WIPO				
	AFF	WO 93/10218	05/27/93	WIPO				
	AGG	WO 93/11230	06/10/93	WIPO				
	AHH	WO 93/14778	08/05/93	WIPO				
	AII	WO 93/19191	09/30/93	WIPO			Abst.	
	AJJ	WO 93/25234	12/23/93	WIPO				
	AKK	WO 93/25698	12/23/93	WIPO				
	ALL	WO 94/03622	02/17/94	WIPO				
	AMM	WO 94/12649	06/09/94	WIPO				
	ANN	WO 94/23697	10/27/94	WIPO				
	AOO	WO 94/28938	12/22/94	WIPO				
	APP	WO 95/00655	01/05/95	WIPO				
	AQQ	WO 95/07994	03/23/95	WIPO				
	ARR	WO 95/11984	05/04/95	WIPO				
	ASS	WO 95/13796	05/26/95	WIPO				
	ATT	WO 95/22058	08/17/95	WIPO				
	AUU	WO 95/30763	11/16/95	WIPO				
	AVV	WO 96/17072	06/06/96	WIPO				
	AWW	WO 97/02357	01/23/97	WIPO				
	AXX	WO 97/27317	07/31/97	WIPO				
	AYY	WO 97/29212	08/14/97	WIPO				

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	Applicant Escobedo et al.		
	Filing Date July 9, 2003	Group Art Unit 1631	

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AZZ	WO 97/42338	11/13/97	WIPO				
	AAAA	0 345 242	06/02/89	EPO			Abst.	
	ABBB	721 016	07/10/96	EPO				
	ACCC	728 520	05/16/01	EPO				
	ADDD	785 280	04/02/03	EPO				
	AEEE	799 897	06/28/06	EPO				
	AFFF	0 524 968	06/07/95	EPO				
	AGGG	2 200 651	08/10/88	GB				

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AHHH	Altschul et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs," <u>Nucl. Acids Res.</u> , 1997, 25(17):3389-3402
	AIII	Alberts et al., <u>Molecular Biology of the Cell</u> , 1994, Garland Publishing, pp. 1-2
	AJJJ	Attwood, "The Babel of Bioinformatics," <u>Science</u> , 2000, 290:471-473
	AKKK	Bodmer et al., "Genetic steps in colorectal cancer," <u>Nat. Genet.</u> , 1994, 6:217-219
	ALLL	Brinkley et al., "Variations in Cell Form and Cytoskeleton in Human Breast Carcinoma Cells <i>in Vitro</i> ," <u>Cancer Res.</u> , 1980, 40:3118-3129
	AMMM	Brutlag et al., "BLAZE <sup>TM</sup> : An Implementation of the Smith-Waterman Sequence Comparison Algorithm on a Massively Parallel Computer," <u>Comp. Chem.</u> , 1993, 17(2):203-207
	ANNN	Cailleau et al., "Breast Tumor Cell Lines from Pleural Effusions," <u>J. Natl. Cancer Inst.</u> , 1974, 53(3):661-666
	AOOO	Chandrasekaran and Davidson, "Glycosaminoglycans of Normal and Malignant Cultured Human Mammary Cells," <u>Cancer Res.</u> , 1979, 39:870-880
	APPP	Chaturvedi et al., "Stabilization of triple-stranded oligonucleotide complexes: use of probes containing alternating phosphodiester and stereo-uniform cationic phosphoramidate linkages," <u>Nucl. Acids Res.</u> , 1996, 24(12):2318-2323
	AQQQ	Clarke and Fersht, "Engineered Disulfide Bonds as Probes of the Folding Pathway of Barnase: Increasing the Stability of Proteins against the Rate of Denaturation," <u>Biochemistry</u> , 1993, 32:4322-4329
	ARRR	Claverie "Effective Large-Scale Sequence Similarity Searches," <u>Meth. Enzymol.</u> , 1996, 266:212-227
	ASSS	Claverie and States, "Information Enhancement Methods for Large Scale Sequence Analysis," <u>Comput. Chem.</u> , 1993, 17(2):191-201
	ATTT	Claverie, <u>Automated DNA Sequencing and Analysis</u> , 1994, Adams et al. (eds.), Chapter 36, pp. 269-279, Academic Press
Examiner Signature		Date Considered
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.		

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 20366-116002	Application No. 10/616,900
<b>Information Disclosure Statement by Applicant</b> (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Escobedo et al.	
		Filing Date July 9, 2003	Group Art Unit 1631

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AUUU	Conia et al., "The Micro-Robotic Laboratory: Optical Trapping and Scissoring for the Biologist," <u>J. Clin. Lab. Anal.</u> , 1997, 11:28-38
	AVVV	Connelly et al., "In Vivo Gene Delivery and Expression of Physiological Levels of Functional Human Factor VIII in Mice," <u>Hum. Gene Ther.</u> , 1995, 6:185-193
	AWWW	Curiel et al., "High-Efficiency Gene Transfer Mediated by Adenovirus Coupled to DNA-Polylysine Complexes," <u>Hum. Gene Ther.</u> , 1992, 3:147-154
	AXXX	Curran et al., "Laser capture microscopy," <u>J. Clin. Pathol.: Mol. Pathol.</u> , 2000, 53:64-68
	AYYY	Emmert-Buck et al., "Laser Capture Microdissection," <u>Science</u> , 1996, 274:998-1001
	AZZZ	Fearon, "Molecular Genetics of Colorectal Cancer," <u>Ann. NY Acad. Sci.</u> , 1995, 768:101-110
	AAAAA	Fearon and Vogelstein, "A Genetic Model for Colorectal Tumorigenesis," <u>Cell</u> , 1990, 61:759-767
	ABBBB	Findeis et al., "Targeted delivery of DNA for gene therapy via receptors," <u>Trends Biotechnol.</u> , 1993, 11:202-205
	ACCCC	Gastpar et al., "Methoxy-Substituted 3-Formyl-2-phenylindoles Inhibit Tubulin Polymerization," <u>J. Med. Chem.</u> , 1998, 41:4965-4972
	ADDDD	Gerhold and Caskey, "It's the genes! EST access to human genome content," <u>BioEssays</u> , 1996, 18(12):973-981
	AEEEE	Gō and Miyazawa, "Relationship Between Mutability, Polarity and Exteriority of Amino Acid Residues in Protein Evolution," <u>Int. J. Peptide Protein Res.</u> , 1980, 15:211-224
	AFFFF	Haezebrouck et al., "Stability effects associated with the introduction of a partial and a complete Ca <sup>2+</sup> -binding site into human lysozyme," <u>Protein Eng.</u> , 1993, 6(6):643-649
	AGGGG	Hamilton and Kern, "Molecular Genetic Alterations as Potential Prognostic Indicators in Colorectal Carcinoma and Molecular Genetics of Colorectal Carcinoma," <u>Cancer</u> , 1993, 72:957
	AHHHH	Hanahan and Weinberg, "The Hallmarks of Cancer," <u>Cell</u> , 2000, 100:57-70
	AIIII	Hashido et al., "Truncation of N-Terminal Extracellular or C-Terminal Intracellular Domains of Human ET <sub>A</sub> Receptor Abrogated the Binding Activity to ET-1," <u>Biochem. Biophys. Res. Comm.</u> , 1992, 187(3):1241-1248
	AJJJJ	Jolly, "Viral vector systems for gene therapy," <u>Cancer Gene Therapy</u> , 1994, 1:51-64
	AKKKK	Kaplitt et al., "Long-term gene expression and phenotypic correction using adeno-associated virus vectors in the mammalian brain," <u>Nat. Genet.</u> , 1994, 8:148-154
	ALLLL	Kelner et al., "Nonresponsiveness of the Metastatic Human Lung Carcinoma MV522 Xenograft to Conventional Anticancer Agents," <u>Anticancer Res.</u> , 1995, 15:867-872
	AMMMM	Kimura et al., "Retroviral Delivery of DNA into the Livers of Transgenic Mice Bearing Premalignant and Malignant Hepatocellular Carcinomas," <u>Hum. Gene Ther.</u> , 1994, 5:845-852
	ANNNN	Kuang et al., "Differential screening and suppression subtractive hybridization identified genes differentially expressed in an estrogen receptor-positive breast carcinoma cell line," <u>Nucl. Acids Res.</u> , 1998, 26(4):1116-1123
	AOOOO	Lopez et al., "Identification of putative chromosomal origins of replication in Archaea," <u>Mol. Microbiol.</u> , 1999, 32(4):883-886
	APPPP	Luo et al., "Gene expression profiles of laser-captured adjacent neuronal subtypes," <u>Nat. Med.</u> , 1999, 5:117-122

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**Other Documents (include Author, Title, Date, and Place of Publication)**

Examiner Initial	Desig. ID	Document
	AQQQQ	Masui et al., "Stabilization and Rational Design of Serine Protease AprM under Highly Alkaline and High-Temperature Conditions," <u>Appl. Env. Microbiol.</u> , 1994, 60(10):3579-3584
	ARRRR	Morikawa et al., "In Vivo Selection of Highly Metastatic Cells from Surgical Specimens of Different Primary Human Colon Carcinomas Implanted into Nude Mice," <u>Cancer Res.</u> , 1988, 48:1943-1948
	ASSSS	Morikawa et al., "Influence of Organ Environment on the Growth, Selection, and Metastasis of Human Colon Carcinoma Cells in Nude Mice," <u>Cancer Res.</u> , 1988, 48:6863-6871
	ATTTT	Mullis and Faloona, "Specific Synthesis of DNA <i>in Vitro</i> via a Polymerase-Catalyzed Chain Reaction," <u>Meth. Enzymol.</u> , 1987, 155:335-372
	AUUUU	Niwa et al., "A Role for Presenilin-1 in Nuclear Accumulation of Ire1 Fragments and Induction of the Mammalian Unfolded Protein Response," <u>Cell</u> , 1999, 99:691-702
	AVVVV	Ohyama et al., "Laser Capture Microdissection-Generated Target Sample for High-Density Oligonucleotide Array Hybridization," <u>Biotechniques</u> , 2000, 29(3):530-536
	AWWWW	Olsen and Thomsen, "Improvement of bacterial $\beta$ -glucanase thermostability by glycosylation," <u>J. Gen. Microbiol.</u> , 1991, 137:579-585
	AXXXX	Pappalardo et al., "Microdissection, Microchip Arrays, and Molecular Analysis of Tumor Cells (Primary and Metastases)," <u>Sem. Radiation Oncol.</u> , 1998, 8(3):217-223
	AYYYY	Peyrottes et al., "Oligodeoxynucleoside phosphoramidates (P-NH <sub>2</sub> ): synthesis and thermal stability of duplexes with DNA and RNA targets," <u>Nucl. Acids Res.</u> , 1996, 24(10):1841-1848
	AZZZZ	Philip et al., "Efficient and Sustained Gene Expression in Primary T Lymphocytes and Primary and Cultured Tumor Cells Mediated by Adeno-Associated Virus Plasmid DNA Complexed to Cationic Liposomes," <u>Mol. Cell. Biol.</u> , 1994, 14(4):2411-2418
	AAAAA	Querol et al., "Analysis of protein conformational characteristics related to thermostability," <u>Prot. Eng.</u> , 1996, 9(3):265-271
	ABBBB	Radinsky et al., "Level and Function of Epidermal Growth Factor Receptor Predict the metastatic Potential of Human Colon Carcinoma Cells," <u>Clin. Cancer Res.</u> , 1995, 1:19-31
	ACCCCC	Ramsay, "DNA chips: State-of-the art," <u>Nat. Biotechnol.</u> , 1998, 16:40-44
	ADDDDD	Ranson et al., "Increased plasminogen binding is associated with metastatic breast cancer cells: differential expression of plasminogen binding proteins," <u>Br. J. Cancer</u> , 1998, 77(10):1586-1597
	AEEEE	Russell and Barton, "Structural Features can be Unconserved in Proteins with Similar Folds. An Analysis of Side-chain to Side-chain Contacts Secondary Structure and Accessibility," <u>J. Mol. Biol.</u> , 1994, 244:332-350
	AFFFFF	Saiki et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <u>Science</u> , 1988, 239:487-491
	AGGGGC	Sambrook et al., "In Vitro Amplification of DNA by the Polymerase Chain Reaction," <u>Molecular Cloning: A Laboratory Manual</u> , 1989, CSH Press, pp.14.2-14.33
	AHHHH	Schena et al., "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <u>Science</u> , 1995, 270(5235):467-470
	AIIII	Schena et al., "Parallel human genome analysis: Microarray-based expression monitoring of 1000 genes," <u>Proc. Natl. Acad. Sci. USA</u> , 1996, 93(20):10614-10619
	AJJJJ	Shalon et al., "A DNA Microarray System for Analyzing Complex DNA Samples Using Two-color Fluorescent Probe Hybridization," <u>Genome Res.</u> , 1996, 6:639-645
	AKKKK	Simone et al., "Laser-capture microdissection: opening the microscopic frontier to molecular analysis," <u>Trends Genet.</u> , 1998, 14(7):272-276

Examiner Signature

Date Considered

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449 (Modified)  <b>Information Disclosure Statement</b> <b>by Applicant</b> (Use several sheets if necessary)  (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 20366-116002	Application No. 10/616,900
	Applicant Escobedo et al.			
	Filing Date July 9, 2003		Group Art Unit 1631	

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	ALLLLL	Suarez-Quian et al., "Laser Capture Microdissection of Single Cells from Complex Tissues," <u>BioTechniques</u> , 1999, 26(2):328-335
	AMMMMM	Toma et al., "Grafting of a Calcium-Binding Loop of Thermolysin to <i>Bacillus subtilis</i> Neutral Protease," <u>Biochemistry</u> , 1991, 30:97-106
	ANNNNN	Varki et al., "Cloned Low Metastatic Variants from Human Lung Carcinoma Metastases," <u>Anticancer Res.</u> , 1990, 10:637-644
	AOOOOO	Varki et al., "Microscopic Metastasis of a Human Lung Carcinoma Cell Line in Athymic Nude Mice: Isolation of a Metastatic Variant," <u>Int. J. Cancer</u> , 1987, 40:46-52
	APPPPP	Varki et al., "Spontaneously Metastasizing Variants of a Human Lung Carcinoma Cell Line: Monoclonal Antibody Characterization," <u>Tumor Biol.</u> , 1990, 11:327-338
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